

Piotr Sliz

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

7,651
citations

109321

35
h-index

98798

67
g-index

77
all docs

77
docs citations

77
times ranked

12403
citing authors

#	ARTICLE	IF	CITATIONS
1	Collaboration gets the most out of software. <i>ELife</i> , 2013, 2, e01456.	6.0	869
2	Lipid-protein interactions in double-layered two-dimensional AQP0 crystals. <i>Nature</i> , 2005, 438, 633-638.	27.8	617
3	mRNA circularization by METTL3-eIF3h enhances translation and promotes oncogenesis. <i>Nature</i> , 2018, 561, 556-560.	27.8	498
4	Molecular model for a complete clathrin lattice from electron cryomicroscopy. <i>Nature</i> , 2004, 432, 573-579.	27.8	464
5	Structural Basis for Cooperativity in Recruitment of MAML Coactivators to Notch Transcription Complexes. <i>Cell</i> , 2006, 124, 973-983.	28.9	390
6	Structure of human O-GlcNAc transferase and its complex with a peptide substrate. <i>Nature</i> , 2011, 469, 564-567.	27.8	385
7	Aquaporin-0 membrane junctions reveal the structure of a closed water pore. <i>Nature</i> , 2004, 429, 193-197.	27.8	347
8	Structural impact on SARS-CoV-2 spike protein by D614G substitution. <i>Science</i> , 2021, 372, 525-530.	12.6	344
9	Molecular Basis for Interaction of let-7 MicroRNAs with Lin28. <i>Cell</i> , 2011, 147, 1080-1091.	28.9	335
10	Structure and Function of an Essential Component of the Outer Membrane Protein Assembly Machine. <i>Science</i> , 2007, 317, 961-964.	12.6	327
11	Determinants of MicroRNA Processing Inhibition by the Developmentally Regulated RNA-binding Protein Lin28. <i>Journal of Biological Chemistry</i> , 2008, 283, 21310-21314.	3.4	301
12	LIN28 Regulates Stem Cell Metabolism and Conversion to Primed Pluripotency. <i>Cell Stem Cell</i> , 2016, 19, 66-80.	11.1	278
13	Shining Light into Black Boxes. <i>Science</i> , 2012, 336, 159-160.	12.6	154
14	Cooperative assembly of higher-order Notch complexes functions as a switch to induce transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2103-2108.	7.1	145
15	Crystal structure of a peptidoglycan glycosyltransferase suggests a model for processive glycan chain synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5348-5353.	7.1	135
16	International electronic health record-derived COVID-19 clinical course profiles: the 4CE consortium. <i>Npj Digital Medicine</i> , 2020, 3, 109.	10.9	128
17	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016, 7, 10882.	12.8	113
18	Activity of dual SRC-ABL inhibitors highlights the role of BCR/ABL kinase dynamics in drug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9244-9249.	7.1	104

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19	How does Radiation Damage in Protein Crystals Depend on X-Ray Dose?. Structure, 2003, 11, 13-19.	3.3	102
20	Structural and functional impact by SARS-CoV-2 Omicron spike mutations. Cell Reports, 2022, 39, 110729.	6.4	102
21	A neutral diphosphate mimic crosslinks the active site of human O-GlcNAc transferase. Nature Chemical Biology, 2012, 8, 72-77.	8.0	87
22	Selective microRNA uridylation by Zcchc6 (TUT7) and Zcchc11 (TUT4). Nucleic Acids Research, 2014, 42, 11777-11791.	14.5	87
23	A Biogenesis Step Upstream of Microprocessor Controls miR-17 [~] 492 Expression. Cell, 2015, 162, 885-899.	28.9	85
24	Mechanisms underlying genetic susceptibility to multisystem inflammatory syndrome in children (MIS-C). Journal of Allergy and Clinical Immunology, 2021, 148, 732-738.e1.	2.9	84
25	Structural Analysis of the Contacts Anchoring Moenomycin to Peptidoglycan Glycosyltransferases and Implications for Antibiotic Design. ACS Chemical Biology, 2008, 3, 429-436.	3.4	82
26	Small-Molecule Inhibitors Disrupt let-7 Oligouridylation and Release the Selective Blockade of let-7 Processing by LIN28. Cell Reports, 2018, 23, 3091-3101.	6.4	81
27	Identification and Characterization of Small Molecule Inhibitors of Plasmodium falciparum Dihydroorotate Dehydrogenase. Journal of Biological Chemistry, 2008, 283, 35078-35085.	3.4	78
28	Crystal Structures of Two Closely Related but Antigenically Distinct HLA-A2/Melanocyte-Melanoma Tumor-Antigen Peptide Complexes. Journal of Immunology, 2001, 167, 3276-3284.	0.8	75
29	LIN28 Zinc Knuckle Domain Is Required and Sufficient to Induce let-7 Oligouridylation. Cell Reports, 2017, 18, 2664-2675.	6.4	66
30	A Quick Guide to Software Licensing for the Scientist-Programmer. PLoS Computational Biology, 2012, 8, e1002598.	3.2	62
31	What Every Reader Should Know About Studies Using Electronic Health Record Data but May Be Afraid to Ask. Journal of Medical Internet Research, 2021, 23, e22219.	4.3	61
32	Conformational Locking upon Cooperative Assembly of Notch Transcription Complexes. Structure, 2012, 20, 340-349.	3.3	60
33	An asymmetric NFAT1 dimer on a pseudo-palindromic $\hat{\text{I}}^{\text{B}}$ -like DNA site. Nature Structural and Molecular Biology, 2003, 10, 807-811.	8.2	56
34	RiboToolkit: an integrated platform for analysis and annotation of ribosome profiling data to decode mRNA translation at codon resolution. Nucleic Acids Research, 2020, 48, W218-W229.	14.5	53
35	Functional and Structural Analysis of a Key Region of the Cell Wall Inhibitor Moenomycin. ACS Chemical Biology, 2010, 5, 701-711.	3.4	46
36	Protein structure determination by exhaustive search of Protein Data Bank derived databases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21476-21481.	7.1	42

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37	Children's rare disease cohorts: an integrative research and clinical genomics initiative. <i>Npj Genomic Medicine</i> , 2020, 5, 29.	3.8	38
38	International Analysis of Electronic Health Records of Children and Youth Hospitalized With COVID-19 Infection in 6 Countries. <i>JAMA Network Open</i> , 2021, 4, e2112596.	5.9	33
39	Chemical Interrogation of the Malaria Kinome. <i>ChemBioChem</i> , 2014, 15, 1920-1930.	2.6	29
40	Cryo-EM structure of the replisome reveals multiple interactions coordinating DNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1848-E1856.	7.1	26
41	Mendelian etiologies identified with whole exome sequencing in cerebral palsy. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 193-205.	3.7	23
42	Development of the Precision Link Biobank at Boston Children's Hospital: Challenges and Opportunities. <i>Journal of Personalized Medicine</i> , 2017, 7, 21.	2.5	20
43	Clinical Phenotypes and Outcomes in Monogenic Versus Non-monogenic Very Early Onset Inflammatory Bowel Disease. <i>Journal of Crohn's and Colitis</i> , 2022, 16, 1380-1396.	1.3	19
44	A grid-enabled web service for low-resolution crystal structure refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 261-267.	2.5	17
45	Maternal Iron Deficiency Modulates Placental Transcriptome and Proteome in Mid-Gestation of Mouse Pregnancy. <i>Journal of Nutrition</i> , 2021, 151, 1073-1083.	2.9	16
46	Pinpointing RNA-Protein Cross-Links with Site-Specific Stable Isotope-Labeled Oligonucleotides. <i>Journal of the American Chemical Society</i> , 2015, 137, 15378-15381.	13.7	15
47	A nanobody targeting the LIN28:let-7 interaction fragment of TUT4 blocks uridylation of let-7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4653-4663.	7.1	15
48	Virtual Screening for Ligand Discovery at the β_1 Receptor. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1555-1561.	2.8	14
49	Single-cell transcriptome profile of mouse skin undergoing antigen-driven allergic inflammation recapitulates findings in atopic dermatitis skin lesions. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 150, 373-384.	2.9	14
50	Science and technology consortia in U.S. biomedical research: A paradigm shift in response to unsustainable academic growth. <i>BioEssays</i> , 2015, 37, 119-122.	2.5	10
51	Comparative analysis of LIN28-RNA binding sites identified at single nucleotide resolution. <i>RNA Biology</i> , 2017, 14, 1756-1765.	3.1	10
52	Multinational characterization of neurological phenotypes in patients hospitalized with COVID-19. <i>Scientific Reports</i> , 2021, 11, 20238.	3.3	10
53	Pulmonary Vasculopathy Associated with FIGF Gene Mutation. <i>American Journal of Pathology</i> , 2017, 187, 25-32.	3.8	8
54	International comparisons of laboratory values from the 4CE collaborative to predict COVID-19 mortality. <i>Npj Digital Medicine</i> , 2022, 5, .	10.9	7

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55	Structural biology computing: Lessons for the biomedical research sciences. <i>Biopolymers</i> , 2013, 99, 809-816.	2.4	6
56	In silico Screening and Evaluation of <i>Plasmodium falciparum</i> Protein Kinase...5 (PK5) Inhibitors. <i>ChemMedChem</i> , 2018, 13, 2479-2483.	3.2	6
57	Extension of research data repository system to support direct compute access to biomedical datasets: enhancing Dataverse to support large datasets. <i>Annals of the New York Academy of Sciences</i> , 2017, 1387, 95-104.	3.8	5
58	Adapting federated cyberinfrastructure for shared data collection facilities in structural biology. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 462-467.	2.4	4
59	A data-driven architecture using natural language processing to improve phenotyping efficiency and accelerate genetic diagnoses of rare disorders. <i>Human Genetics and Genomics Advances</i> , 2021, 2, 100035.	1.7	4
60	Optimizing Peer Review of Software Code. <i>Science</i> , 2013, 341, 236-237.	12.6	3
61	AppCiter: A Web Application for Increasing Rates and Accuracy of Scientific Software Citation. <i>Structure</i> , 2015, 23, 807-808.	3.3	3
62	Crystallization and preliminary structural studies of lactose-specific enzyme IIA from <i>Lactococcus lactis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1996, 52, 1199-1201.	2.5	2
63	An integrated science portal for collaborative compute and data intensive protein structure studies. , 2012, , .		2
64	MightyScreen: An Open-Source Visualization Application for Screening Data Analysis. <i>SLAS Discovery</i> , 2018, 23, 218-223.	2.7	2
65	Molecular Dissection of the Primase and Polymerase Activities of Deep-Sea Phage NrS-1 Primase-Polymerase. <i>Frontiers in Microbiology</i> , 2021, 12, 766612.	3.5	2
66	Compute and data management strategies for grid deployment of high throughput protein structure studies. , 2010, , .		1
67	A synonymous coding variant that alters <i>ALAS2</i> splicing and causes X-linked sideroblastic anemia. <i>Pediatric Blood and Cancer</i> , 2022, 69, e29309.	1.5	1
68	Congenital X-linked Neutropenia with Myelodysplasia and Somatic Tetraploidy due to a Germline Mutation in <i>SEPT6</i> . <i>American Journal of Hematology</i> , 2021, , .	4.1	1